

Jones Road Ground Water Plume Superfund Site

Community Update Meeting

April 8, 2019

Raji Josiam
Remedial Project Manager
Environmental Protection Agency

Purpose of the Meeting

- To update community on actions taken at the Site
- To address community questions/concerns
 - Vapor Intrusion
 - Waterline
 - Groundwater
 - Other
- Questions?

Jones Road Ground Water Plume Superfund Site Houston (Harris County), TX



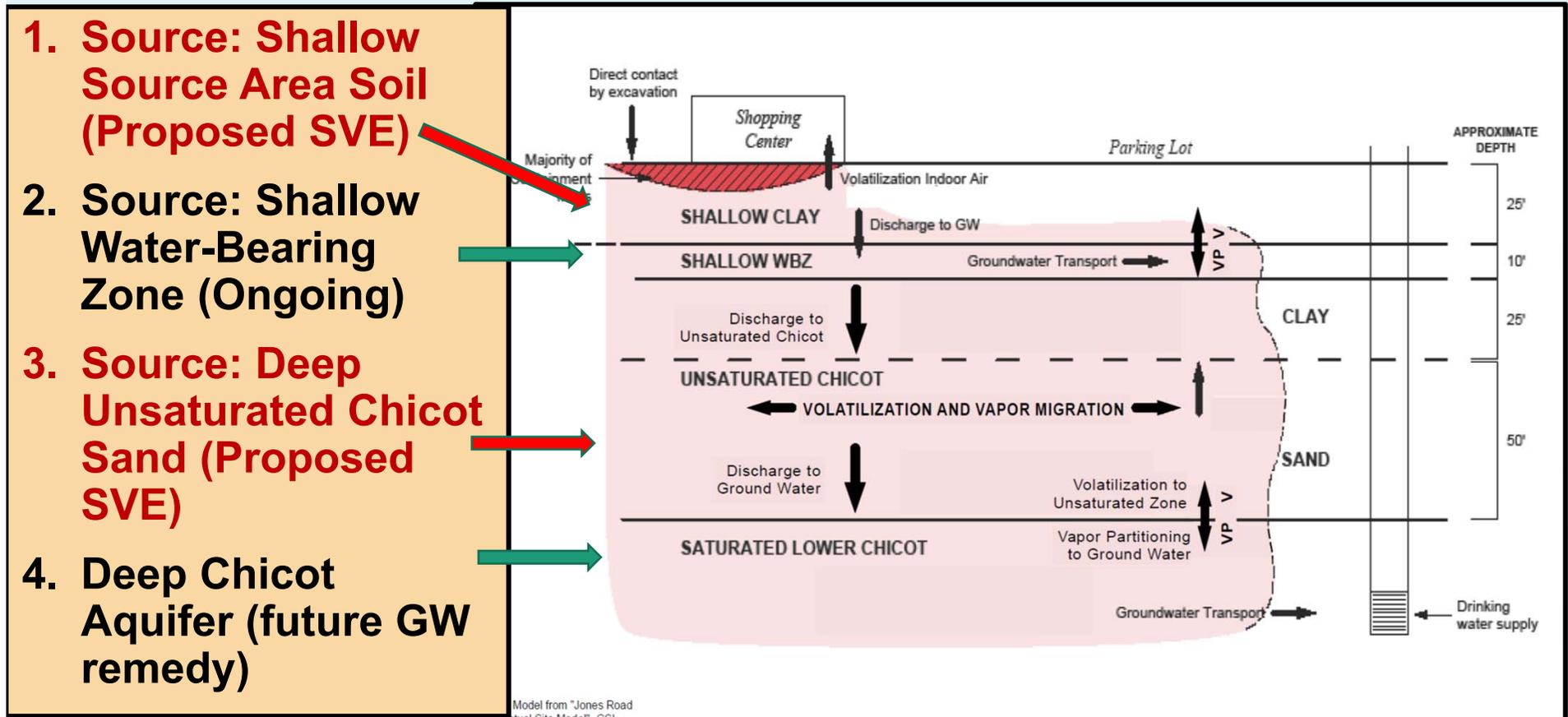
Source of Contamination

- Former Bell Dry Cleaners (1988-2002)

Affected Media

- Soil
- Indoor Air
- Groundwater

Conceptual Site Model Source Areas and Groundwater



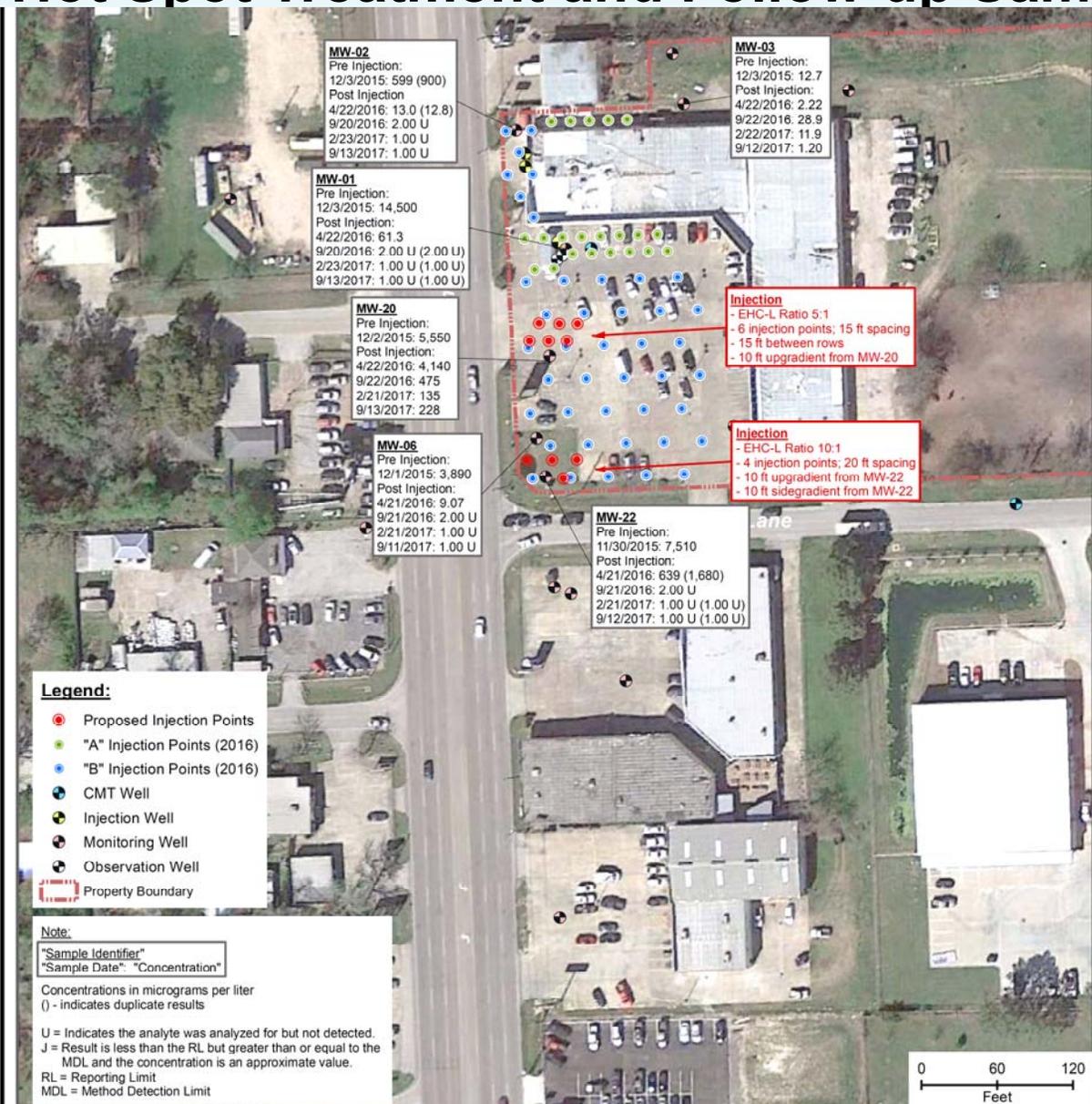
Actions Taken at the Site

- 2010 - Record of Decision (ROD) (Zones 1, 2 and 4)
- 2012 - Deep Soil Vapor Extraction (SVE) System wells installed (Zone 3)
- 2013 – Pilot tests conducted for Deep Soil (Zone 3)
- 2014 – Optimization study for selected remedy
 - Shallow Water Bearing Zone (2)
 - Shallow and Deep Soil Zones (1 and 3)
 - Groundwater (Zone 4 to be addressed once 1, 2, 3 are completed)

Actions Taken at the Site

- 2015 – Shallow Water Bearing Zone (2) monitoring wells installed
- 2016
 - Began restoration of groundwater in the Shallow Water-Bearing Zone (2)
 - Shallow SVE wells installed and Pilot tests conducted (Zone 1)
 - Continuous-Multichannel Tubing (CMT) Wells Installed (Zone 4)
- 2017 – ROD Amendment #1 (Zones 1 and 3)

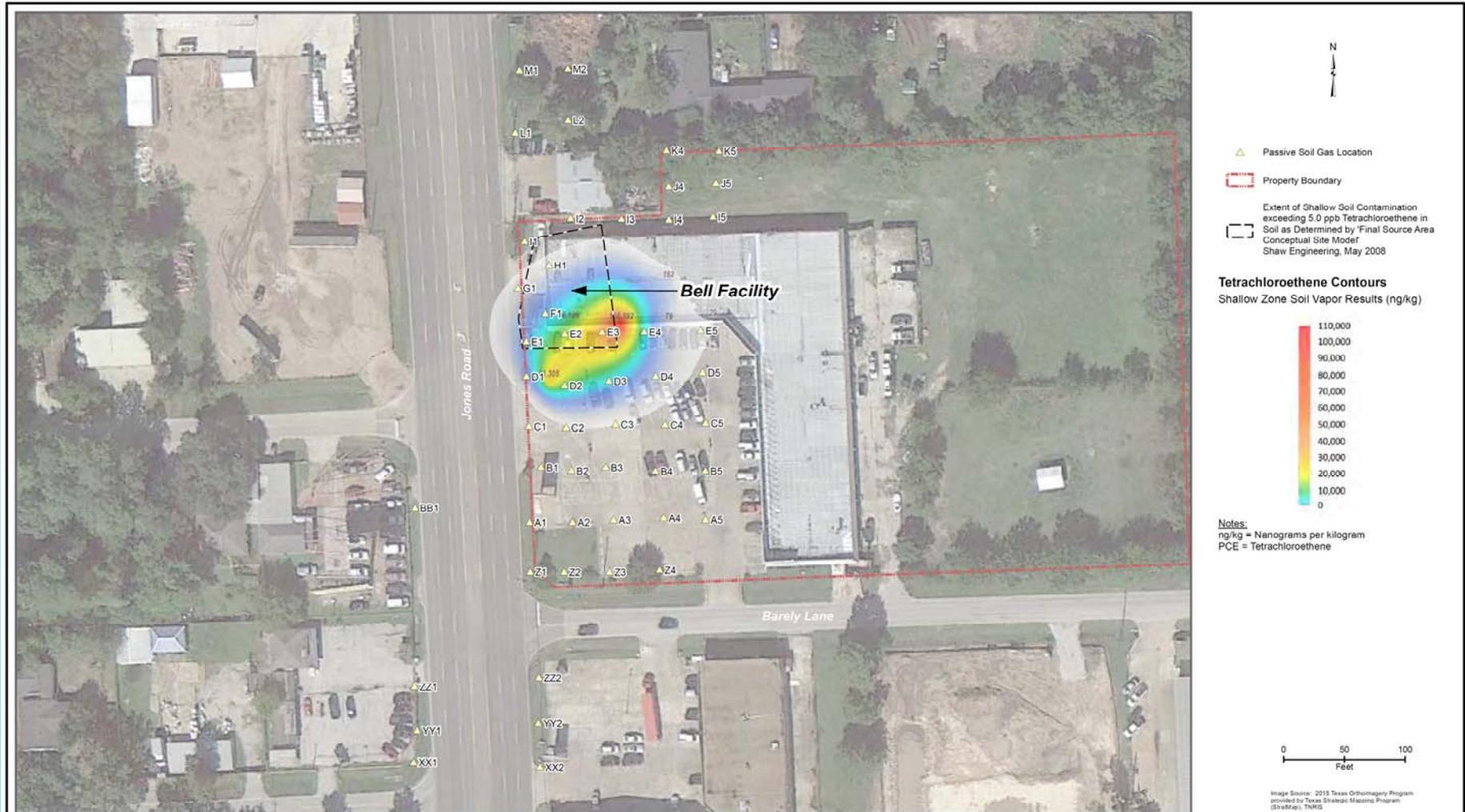
Shallow Water Bearing Zone (2) 2018 Hot Spot Treatment and Follow-up Sampling



Shallow Water Bearing Zone Pre-Injection and Post Injection Results PCE

Wells	Dec-2015 µg/L	Apr-2016 µg/L	Sep-2016 µg/L	Feb-2017 µg/L	Sep-2017 µg/L	May-2018 µg/L	Nov-2018 µg/L
MW-01	14,500	61.3	2.0U	1.0U	1.0U	1.0U	3.2
MW-02	599	13.0	2.0U	1.0U	1.0U	1.8	508
MW-03	12.7	2.22	28.9	11.9	1.2	3.4	2.5
MW-06	3,890	9.07	2.0U	1.0U	1.0U	1.0U	1.0U
MW-20	5,550	4,140	475	135	228	7.4	21.1
MW-22	7,510	639	2.0U	1.0U	1.0U	1.0U	10.5

Soil Vapor Shallow Soil (Zone 1)



Remedial Design
Jones Road Ground Water Plume
Houston, Harris County, Texas

Figure 2
Distribution of PCE in Soil Gas - Shallow Zone

SVE Treatment Area - Deep Zone (3)



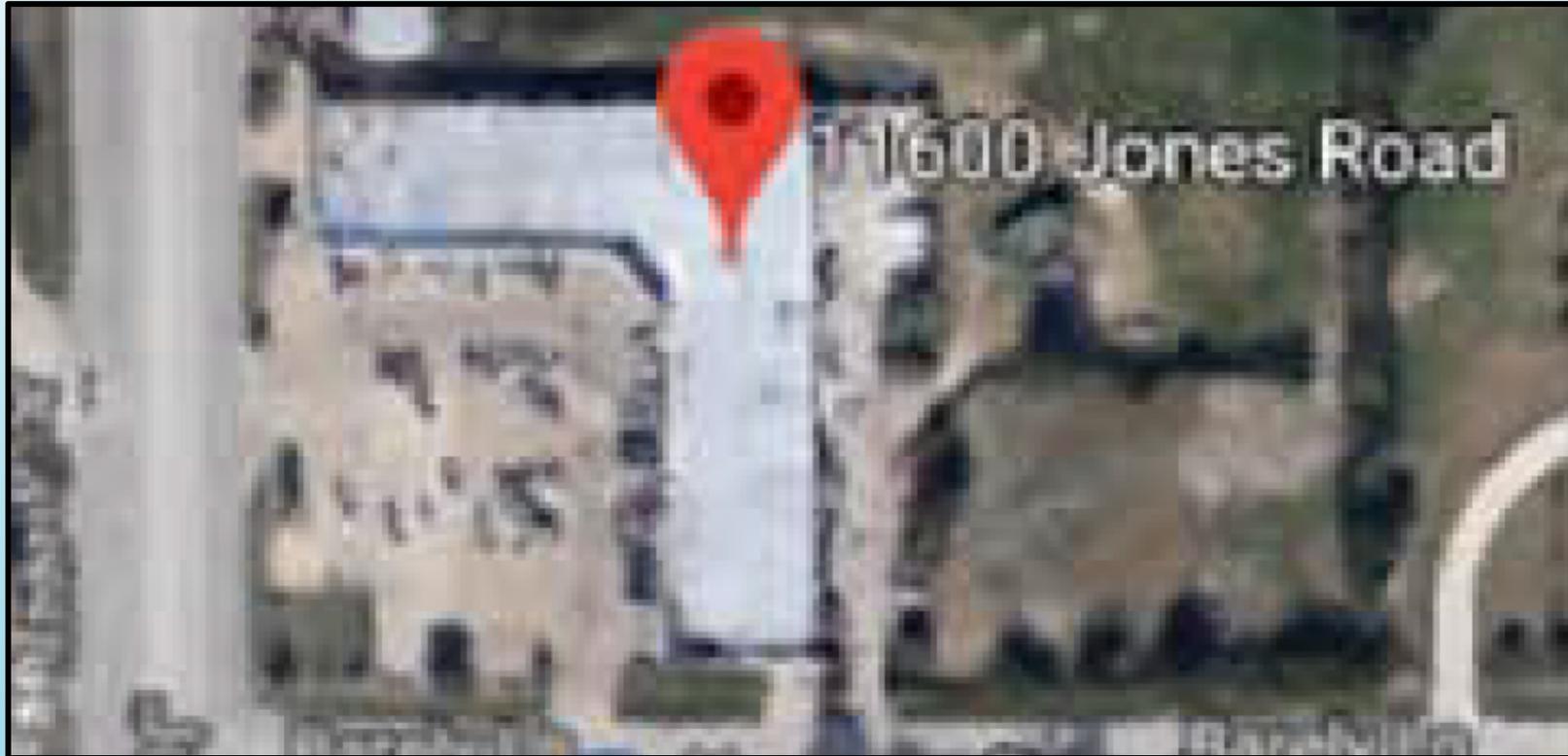
Remedial Design
 Jones Road Ground Water Plume
 Houston, Harris County, Texas

Figure 6
 Distribution of PCE in Soil Gas - Deep Zone

Soil Vapor Extraction System Shallow Soil (Zone 1) and Deep Soil (Zone 3)

- 2018 – Soil Vapor Extraction System Design Completed
- Apr 2019 – Field work for SVE System begins
- Jun 2019 – SVE System installation to be completed
- 2021 – SVE System operation expected to be completed

May 2018 Vapor Mitigation System Installed in 3 Suites



Vapor Mitigation System Installation



Vapor Mitigation System

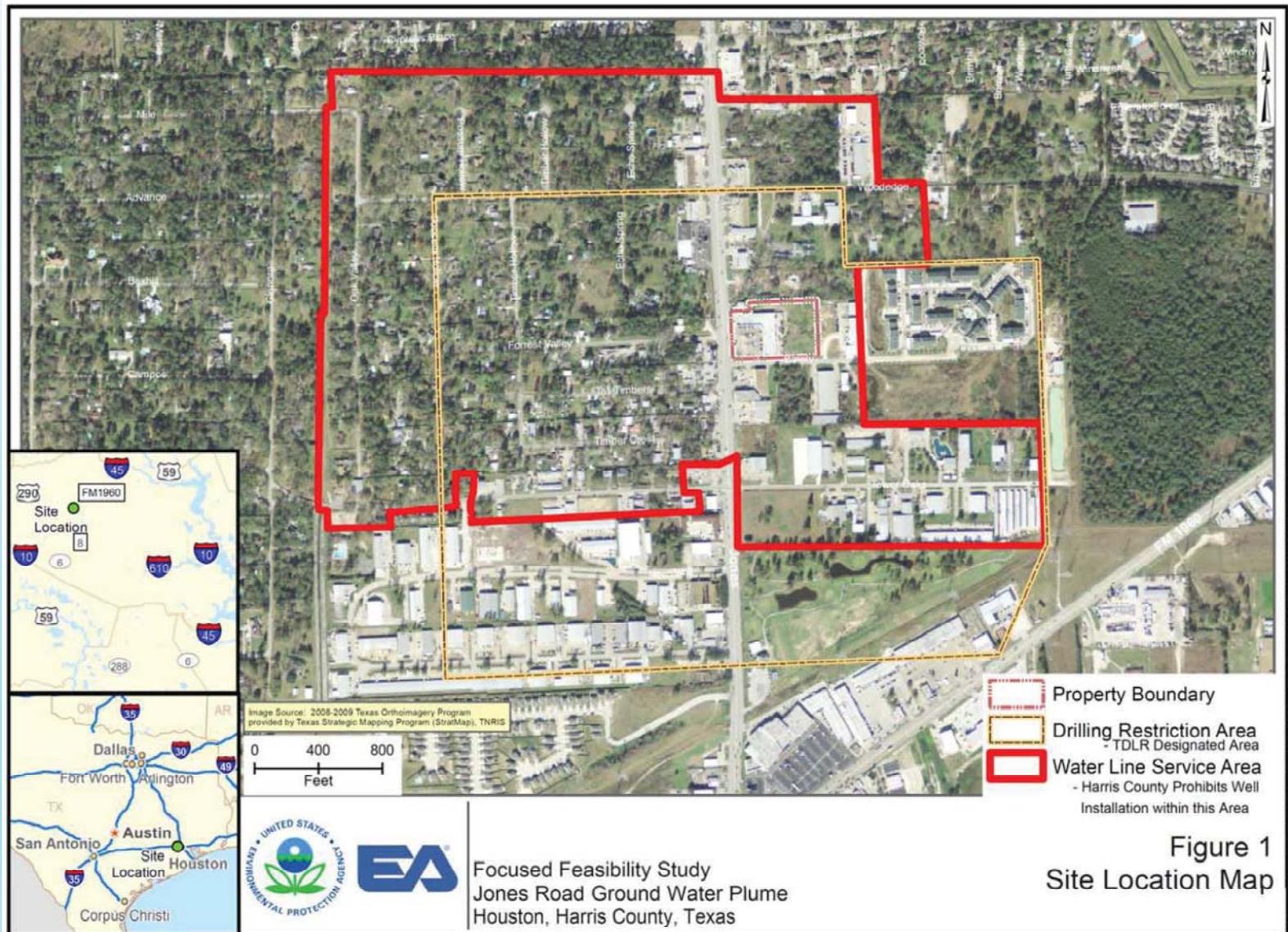


Outside



Inside

2008 - Water Line Connection 144 Connections by EPA in 2008



Water Service Area Information Based on 2018 Review

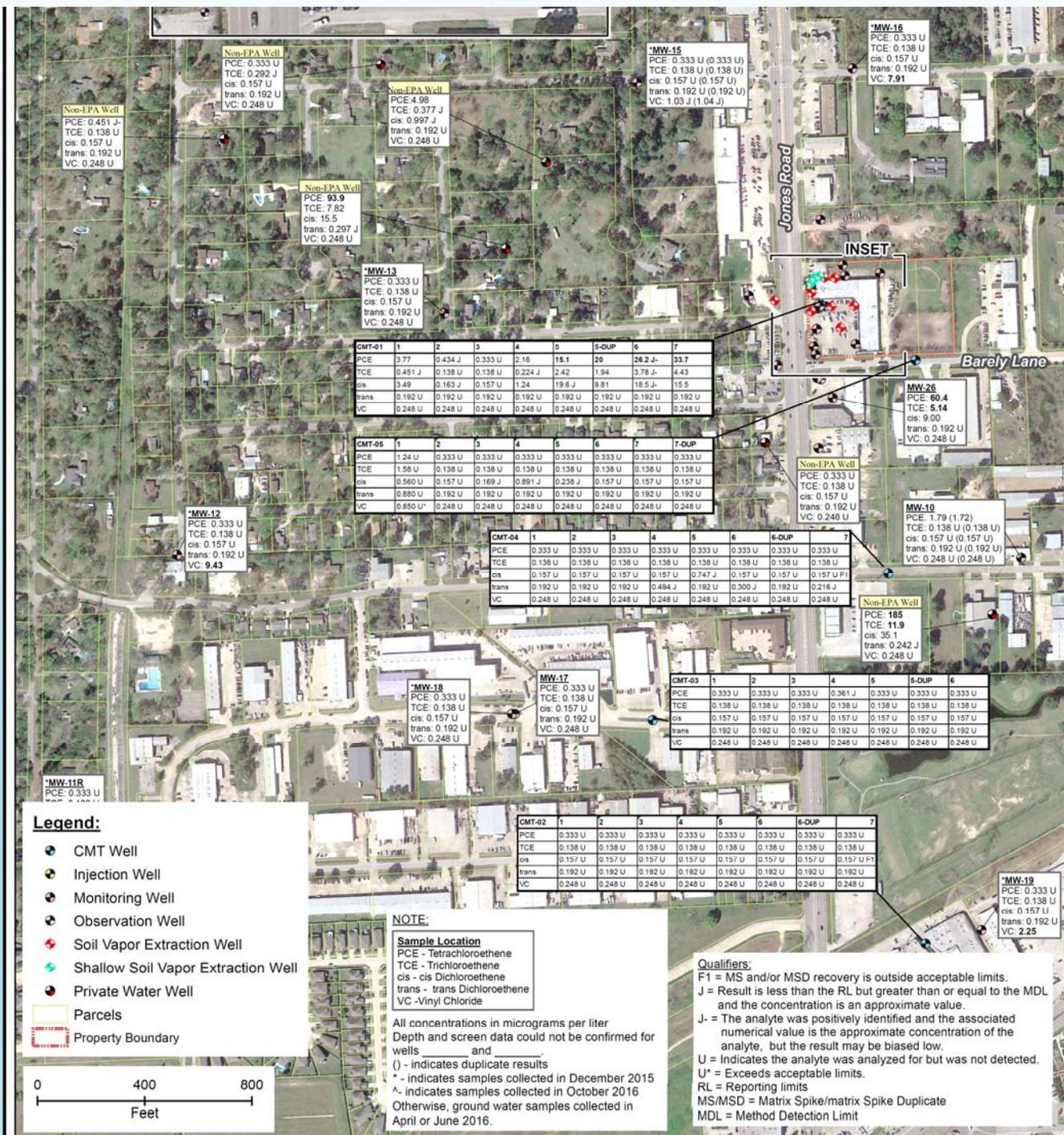
Information within Waterline Service Area

- Total Number of parcels: 321
- Number of merged parcels with same owners: 273
- Number of parcels with information: 161
 - Number of Parcels connected to waterline: 149
 - Without waterline connection: 12

Well Information Based on 2018 Review

- Plugged wells: 98
- Non-functional well in place: 8
- Well function unknown: 10
- Well presence unknown: 35

Well Locations



Groundwater Plume

- Sample wells this summer before SVE System operation to establish groundwater baseline
- Delineate groundwater plume (Zone 4)
- Propose remedy for groundwater plume (Zone 4)
- Implement remedy for groundwater plume

Questions?

EPA Site Contact Information

Technical questions

- Raji Josiam, Remedial Project Manager,
at 214.665.8529 or 800.533-3508 (Toll-Free) or
at josiam.raji@epa.gov

Questions about the facility

- Jason McKinney, EPA Community Involvement Coordinator,
at 214.665.8132 or 800.533-3508 (Toll-Free) or
At mckinney.Jason@epa.gov